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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,406	11/04/2003	Matt Morano	NYMX0002	5734
25235 7590 01/29/2008 HOGAN & HARTSON LLP ONE TABOR CENTER, SUITE 1500 1200 SEVENTEENTH ST DENVER, CO 80202			EXAMINER GRAHAM, CLEMENT B	
			ART UNIT 3692	PAPER NUMBER
			MAIL DATE 01/29/2008	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/700,406	<b>Applicant(s)</b> MORANO ET AL.	
	<b>Examiner</b> CLEMENT B. GRAHAM	<b>Art Unit</b> 3692	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 07 November 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

#### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-25, are rejected under 35 U.S.C. 103(a) as being unpatentable over Rosen et al (Hereinafter Rosen U.S Patent 6, 049, 784) in view Martin U.S Patent 7, 089, 206.

As per claim 1, Rosen discloses a distributed trading system for handling a plurality of order requests, each order request comprising parameters under which a participant will buy and/or sell a futures contract, the system comprising:

a messaging bus, a validator coupled to the messaging bus and having a first interface for receiving order requests, wherein the validator implements processes for validating the order requests, and an interface generating a validated order message on the messaging bus related to validated orders (see para 0084-0089 and column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

Rosen fail to explicitly teach a risk allocation value (RAV) component coupled to the messaging bus and having an interface for receiving validated order messages from the validator, wherein the RAV component implements processes for evaluating risk associated with an order should that order be completed and preventing completion on an order in response to the RAV component identifying an unacceptable position a match engine coupled to the messaging bus and having an interface for receiving validated order messages from the RAV component, wherein the match engine implements processes for matching orders based on the order-specified criteria; and a persist component coupled to the messaging bus and having an interface for receiving messages related to orders and trades, wherein the persist component implements processes for persistently storing information related to orders and trades.

However Martin discloses allocation Amount=The Allocation.sub.13 Amount value is the number of shares determined to be allocated to a particular portfolio and risk class. The

However Martin discloses allocation Amount=The Allocation.sub.13 Amount value is the number of shares determined to be allocated to a particular portfolio and risk class. The association amount value may be derived by multiplying the trade volume by the target ratio for an opening position or the close ratio for a closing position

Round, LotSize=Round, LotSize represents a function that will round the Allocation Amount according to the minimum allowable rounding size (this size may be predetermined or configurable(note abstract and see column 13 lines 34-40 column 22 lines 14-43).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Rosen to include a risk allocation value (RAV) component coupled to the messaging bus and having an interface for receiving validated order messages from the validator, wherein the RAV component implements processes for evaluating risk associated with an order should that order be completed and preventing completion on an order in response to the RAV component identifying an unacceptable position a match engine coupled to the messaging bus and having an interface for receiving validated order messages from the RAV component, wherein the match engine implements processes for matching orders based on the order-specified criteria; and a persist component coupled to the messaging bus and having an interface for receiving messages related to orders and trades, wherein the persist component implements processes for persistently storing information related to orders and trades taught by Martin in order to allocate a trade of financial instruments among a group of portfolios.

As per claim 2, Rosen discloses further comprising: a market data service component coupled to the messaging bus and having an interface for receiving messages related to orders and trades, wherein the market data service component implements processes for generating market data related to orders and trades handled by the distributed trading system. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 3, Rosen discloses wherein the RAV component evaluates risk based on active orders, positions and margins for a particular customer placing the

order. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 4, Rosen discloses wherein the messaging bus comprises a subscriber publisher messaging bus. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 5, Rosen discloses wherein the match engine is configured specifically for a particular class of futures contracts and receives validated order messages only when they related to the particular class of futures contracts. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 6, Rosen discloses wherein the particular class of futures contracts comprise a contract cluster, and wherein responsive to contract clusters being identified, requiring the match engine to consider two or more contracts simultaneously to determine matches. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 7, Rosen discloses wherein the match engine publishes messages related to executed trades that are subscribed to by the persist component. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 8, Rosen discloses wherein the match engine publishes messages related to unmatched orders that are subscribed to by the persist component. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 9, Rosen discloses wherein the validator subscribes to messages related to market state, and the validator further comprises processes for using the market state to validate orders. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 10, Rosen discloses wherein the market state messages include information selected from the group consisting of- exchange active, contract active, markets open, user assigned to account, and high/low limits. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 11, Rosen discloses wherein the messages are self-describing. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 12, Rosen discloses wherein the messages comprise XML messages. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 13, Rosen discloses a method for implementing trades on an electronic exchange, the method comprising the acts of providing a messaging bus, receiving an order request in a first component, wherein the order request specifies parameters under which a participant will buy and/or sell a futures contract; validating the order requests; generating a validated order message on the messaging bus related to validated order request when the order request satisfies pre-specified validation criteria; receiving the validated order message in a second component, evaluating risk associated with the order represented in the validated order message(see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

Rosen fail to explicitly teach generating an accepted order message on the messaging bus when the evaluated risk satisfies pre-specified risk criteria, receiving the accepted order message in a third component; matching orders based on the order-specified criteria; generating an unmatched order message on the messaging bus, generating a trade message on the messaging bus corresponding to two or more matched orders, and receiving the messages related to unmatched orders and trades; and persistently storing information related to orders and trades and proposing a settlement price for matched orders based on outside trade data.

However Martin discloses  $\text{Allocation Amount} = \frac{\text{The Allocation.sub.13 Amount value}}{\text{the number of shares determined to be allocated to a particular portfolio and risk class.}}$  The association amount value may be derived by multiplying the trade volume by the target ratio for an opening position or the close ratio for a closing position  $\text{Round, LotSize} = \text{Round, LotSize}$  represents a function that will round the Allocation Amount according to the minimum allowable rounding size (this size may be predetermined or configurable(note abstract and see column 13 lines 34-40 column 22 lines 14-43).

Therefore it would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify the teachings of Rosen to include generating an accepted order message on the messaging bus when the evaluated risk satisfies pre-specified risk criteria, receiving the accepted order message in a third component; matching orders based on the order-specified criteria; generating an unmatched order message on the messaging bus, generating a trade message on the messaging bus corresponding to two or more matched orders, and receiving the messages related to unmatched orders and trades; and persistently storing information related to orders and trades and proposing a settlement price for matched orders based on outside trade data taught by Martin in order to allocate a trade of financial instruments among a group of portfolios.

As per claim 14, Rosen discloses wherein the validator further comprises processes for reporting errors back to a client(see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 15, Rosen discloses wherein the futures contract includes contract clustering and each contract cluster includes two or more related contracts and each contract cluster is (i) given a unique cluster identification, and wherein matching orders associated with one contract of a particular cluster identification includes simultaneous consideration of the two or more related contracts associated with the particular cluster identification. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 16, Rosen discloses further comprising:  
a trading floor operation producing a plurality of manually executed trades; and  
mechanisms for recording executed trades from the trading floor. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 17, Rosen discloses the futures exchange of claim 16 where the mechanisms for recording executed trades utilize at least some of the components of the distributed trading system. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

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As per claim 18, Rosen discloses a market data product comprising market data produced by the market data service component of claim 2. (see column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 19, Rosen discloses a distributed trading system for handling a plurality of order requests, each order request comprising parameters under which a participant will buy and/or sell a futures contract, the system comprising: a messaging bus; a validator coupled to the messaging bus and having a first interface for receiving order requests, wherein the validator implements processes for validating the order requests, and an interface generating a validated order message on the messaging bus related to validated orders(see para 0084-0089 and column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

Rosen fail to explicitly teach a risk allocation value (RAV) component coupled to the messaging bus and having an interface for receiving validated order messages from the validator, wherein the RAV component implements processes for evaluating risk associated with an order should that order be completed, a match engine coupled to the messaging bus and having an interface for receiving validated acceptable order messages from the RAV component, wherein the match engine implements processes for matching orders based on the order- specified criteria, a persist component coupled to the messaging bus and having an interface for receiving messages related to orders and trades, wherein the persist component implements processes for persistently storing information related to orders and trades; and a settlement component coupled to the persist component and having an interface for receiving orders matched by the match engine and an interface for receiving trade data, wherein the settlement component calculates a proposed settlement price and submits the proposed settlement price for publication.

However Martin discloses allocation Amount=The Allocation.sub.13 Amount value is the number of shares determined to be allocated to a particular portfolio and risk class. The association amount value may be derived by multiplying the trade volume by the target ratio for an opening position or the close ratio for a closing position



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Round, LotSize=Round, LotSize represents a function that will round the Allocation Amount according to the minimum allowable rounding size (this size may be predetermined or configurable (note abstract and see column 13 lines 34-40 column 22 lines 14-43)).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Rosen to include risk allocation value (RAV) component coupled to the messaging bus and having an interface for receiving validated order messages from the validator, wherein the RAV component implements processes for evaluating risk associated with an order should that order be completed, a match engine coupled to the messaging bus and having an interface for receiving validated acceptable order messages from the RAV component, wherein the match engine implements processes for matching orders based on the order-specified criteria, a persist component coupled to the messaging bus and having an interface for receiving messages related to orders and trades, wherein the persist component implements processes for persistently storing information related to orders and trades and a settlement component coupled to the persist component and having an interface for receiving orders matched by the match engine and an interface for receiving trade data, wherein the settlement component calculates a proposed settlement price and submits the proposed settlement price for publication taught by Martin in order to allocate a trade of financial instruments among a group of portfolios.

As per claim 20, Rosen wherein the RAV component is further operative for implementing processes which prevent completion on an order in response to the RAV component identifying an unacceptable position. (see para 0084-0089 and column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 21, Rosen discloses further comprising: a market data service component coupled to the messaging bus and having an interface for receiving messages related to orders and trades, wherein the market data service component implements processes for generating market data related to orders and trades handled by the distributed trading system. (see para 0084-0089 and column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 22, Rosen discloses 22. (New) The system of claim 19 wherein the RAV component evaluates risk based on active orders, positions and margins for a particular customer placing the order. (see para 0084-0089 and column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 23, Rosen discloses wherein the messaging bus comprises a subscriber publisher messaging bus.

As per claim 24, Rosen discloses wherein the match engine is configured specifically for a particular class of futures contracts and receives validated order messages only when they related to the particular class of futures contracts. (see para 0084-0089 and column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

As per claim 25, Rosen discloses wherein the particular class of futures contracts comprise a contract cluster, and wherein responsive to contract clusters being identified, requiring the match engine to consider two or more contracts simultaneously to determine matches. (see para 0084-0089 and column 8 para 0065-0067 and para 0068-0074 and column 9-13 para 0089-0149).

### Conclusion

3. Applicant's arguments filed 11/7/07 has been fully considered but they are moot in view of new grounds rejections.

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

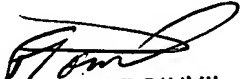
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Clement B Graham whose telephone number 571-272-6795. The examiner can normally be reached on 7am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kambiz Abdi can be reached on 571-272-6702. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-0040 for regular communications and 703-305-0040 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

CG

Jan 14, 2998

  
FRANTZY POINVIL  
PRIMARY EXAMINER  
*Aa 3692*